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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/629,337	08/01/2000	Mark C. Fowler	0100.0001160	7287
29153 7590 09/13/2007 ADVANCED MICRO DEVICES, INC. C/O VEDDER PRICE KAUFMAN & KAMMHOLZ, P.C. 222 N.LASALLE STREET CHICAGO, IL 60601			EXAMINER BRIER, JEFFERY A	
			ART UNIT 2628	PAPER NUMBER
			MAIL DATE 09/13/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/629,337	Applicant(s) FOWLER ET AL.	
	Examiner Jeffery A. Brier	Art Unit 2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5,6,9,11,14,15,17-19,22 and 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6 is/are rejected.
- 7) ☒ Claim(s) 5,9,11,14,15,17-19,22 and 23 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment

1. The amendment filed on 8/01/2007 has been entered. The amendment to the specification overcomes the objection set forth in the office action mailed on 2/1/2007 at paragraph 4. After review of the specification and amended claims additional specification and claim objections are noted and set forth below as well as a claim rejection.

Specification

2. The disclosure is objected to because of the following informalities:

At page 8 line 15 YDIR in (YDIR AND (Y<TOP)) should be changed to indicate logical NOT YDIR, see claim 18 line 28 and claim 14 line 5;

At page 9 line 9 should define the direction of 401 as right to left and assigned a value of 1 and

The specification uses underling as indicating logical NOT however a better symbol used in Boolean digital logic is the bar $\bar{}$. Thus A would be \bar{A} . See chapters 36.9 36.16 of the The Mechatronics Handbook by CRC press.

Appropriate correction is required.

Claim Objections

3. Claims 5, 6, 9, 11, 14, 15, 17-19, 22, and 23 are objected to because of the following informalities:

Claim 18:

At line 3 a separation between", YEND," and "XSTART and XEND" and changing ", YEND," to ", and YEND," would be beneficial;

At line 6 a separation between", YBOTTOM ," and "XLEFT and XRIGHT" and changing ", YBOTTOM ," to ", and YBOTTOM ," would be beneficial;

At line 7 "YSTART" should be "YTOP"; and

At line 8 "YEND" should be "YBOTTOM".

Claim 22:

At line 12 ", YEND," should be ", and YEND,";

At line 16 ", YBOTTOM ," should be ", and YBOTTOM ,";

At line 18 "YSTART" should be "YTOP";

At line 18 "YEND" should be "YBOTTOM"; and

At line 32 "wherein in the step of filling" should be "wherein in the step of filling the filling"

Claim 23:

At line 18 a separation between", YEND," and "XSTART and XEND" and changing ", YEND," to ", and YEND," would be beneficial;

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At line 21 a separation between", YBOTTOM ," and "XLEFT and XRIGHT" and changing ", YBOTTOM ," to ", and YBOTTOM ," would be beneficial;

At line 23 "YSTART" should be "YTOP"; and

At line 24 "YEND" should be "YBOTTOM".

Claim 5:

At line 5 YDIR should be changed to indicate logical NOT YDIR, see claim 18 line 28; and

At line 7 XDIR should be changed to indicate logical NOT XDIR, see claim 18 line 30.

Claims 5, 6, 9, 11, 14, 15, 17-19, 22, and 23:

The claims use underling as indicating logical NOT however a better symbol used in Boolean digital logic is the bar $\bar{}$. Thus \underline{A} would be \bar{A} . See chapters 36.9 36.16 of the The Mechatronics Handbook by CRC press.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This claim was amended to be identical limitation found in new claim 22, thus, it is not clear from claim 6 if an additional step is being performed or if claim 6 does not add any additional steps to claim 22. Claim 6 should be cancelled.

Allowable Subject Matter

6. Claims 5, 9, 11, 14, 15, 17-19, 22, and 23 would be allowable if amended to correct the objections.
7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A Brier whose telephone number is (571) 272-7656. The examiner can normally be reached on M-F from 7:30 to 4:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (571) 272-7664. The fax phone Number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jeffery A. Brier/
Primary Examiner, Division 2628